

LIQUID CRYSTAL DISPLAY DEVICE AND ITS PRODUCTION

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Abstract

PROBLEM TO BE SOLVED: To improve an opening rate by setting the orientation state of liquid crystals and the polarization state of polarizing plates by the absence of voltage between pixel electrodes and counter electrodes.

SOLUTION: This liquid crystal display device is constituted by providing the surface on the liquid crystal layer side of at least one or both of transparent substrates of the transparent substrates arranged to face each other via the liquid crystal layer with the pixel electrodes PX and the counter electrodes CT and is constituted to generate electric fields parallel with the transparent substrates by the application of the voltage between these pixel electrodes PX and the counter electrodes CT. The orientation state of the liquid crystals shielding the light transmission from the one transparent substrate toward the other transparent substrate via the liquid crystals and the polarization state of the polarizing plate are set by the absence of the voltage between the pixel electrodes PX and the counter electrodes CT. At least either of the pixel electrodes PX and the counter electrodes CT are composed of transparent conductive films.

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